RECLANIATION Managing Water in the West

MT DROUGHT ADVISORY COMMITTEE MEETING

RESERVOIR AND RIVER OPERATIONS









U.S. Department of the Interior **Bureau of Reclamation**



RECLANIATION Managing Water in the West

Summary of Reservoir Conditions

May 20, 2007
May-July Forecast
1,000 Acre-Feet

		1,00	00 Acre-Feet	- Indian		
RESERVOIR NAME	CONTENT KAF	% OF AVG	SNOW WATER CONTENT	% OF AVG	MAY-JUL KAF FORECAST	% OF AVG
Clark Canyon	123,105	75	2.69	30	25	33
Canyon Ferry	1,709,164	109	2.94	24	799	48
Gibson	94,215	129	0.3	6	320	73
Lake Elwell	724,157	95	3.86	31	286	68
Lake Sherburne	33,939	134	16.1	76	80	84
Fresno Reservoir	92,200	137	N.A.	N.A	43	108
Bighorn Lake	891,817	104	3.61	35	560	55



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Lima Reservoir

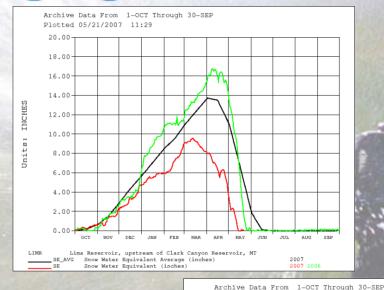
Inflows to Lima are well below normal

Snowpack is melted out

Storage @ 103% of average & 77% full

Releases are being maintained @ about 410 cfs

Water supply outlook looks less favorable as compared to last year,



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Lima Reservoir, upstream of Clark Canyon Reservoir, MT FB_OPAV Operation Model Average Forebay Elevation (feet)
FB_MOS Most Probable Forebay Elevation (feet) Reservoir Forebay Elevation (feet) Daily Mean Total Discharge (cfs)

500.00

450.00

400.00

350.00

300.00

250.00

200.00

150.00

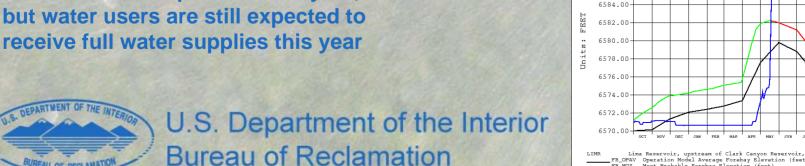
100 00

0.00

6590.00

6588.00

6586.00



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Clark Canyon Reservoir

Snowpack @ 30% of average

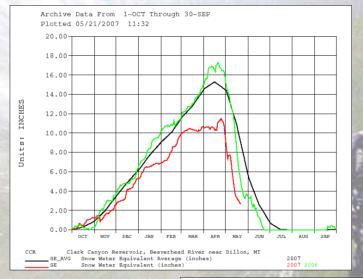
Inflows to Clark Canyon are well below average @ only 12% of ave.

Storage @ 123,100 af, 75% of average, 71% full, and 1.2 ft or 5,130 af more than last year

Releases maintained @ 625 cfs to meet irrigation demands

For 2nd year in a row, EBID & CCWS are expected to receive full water supplies

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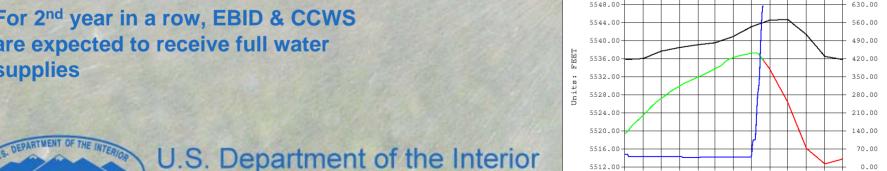
Archive Data From 1-OCT Through 30-SEP

Clark Canyon Reservoir, Beaverhead River near Dillon, MT Operation Model Average Forebay Elevation (feet) Most Probable Forebay Elevation (feet) Reservoir Forebay Elevation (feet) Daily Mean Total Discharge (cfs)

200.00

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5552.00



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Hebgen Reservoir (PPL-MT)

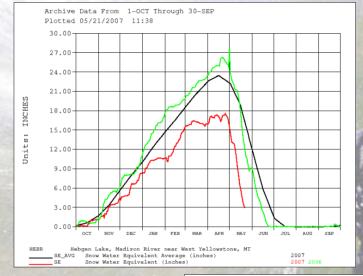
Snowpack @ 20% of average

Currently releasing 525 cfs to Madison River

Storage @ 107% of average & 85% full

Reservoir is slowly filling and expect to fill to elevation 6535 in June and remain near full all summer

Water supply outlook is fair





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Operation Model Average Forebay Elevation (feet) Most Probable Forebay Elevation (feet) Reservoir Forebay Elevation (feet) Daily Mean Total Discharge (cfs)

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Canyon Ferry Reservoir

Snowpack @ 24% of average

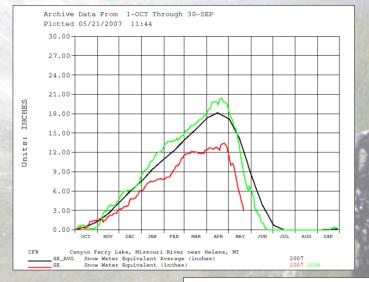
Storage @ 109% of average, 90% full, & 11.9 ft higher than last year

Releases maintained @ near 3,500 cfs below Holter Dam

Expect storage to fill to normal full pool in June

As storage approaches full pool, releases out of Canyon Ferry may be increased to control the rate of fill

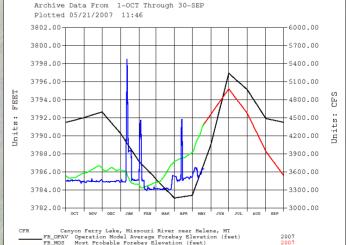
Water supply outlook is fair







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Reservoir Forebay Elevation (feet) Daily Mean River Discharge (cfs

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Gibson Reservoir

Snowpack @ 6% of average

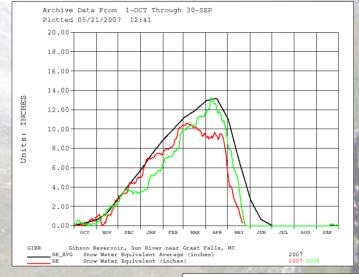
Inflows are about normal

Storage @ 129% of average, 99% full, and 7.4 ft or 9,400 af higher than last year

Storages in Willow Creek & Pishkun Reservoirs are essentially full

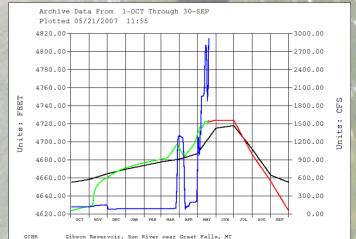
Currently releasing 1,380 cfs to Sun River to control rate of fill

All reservoirs essentially full, but lack of precipitation this summer could cause water users to experience water shortages later this summer





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Operation Model Average Forebay Elevation (feet) Most Probable Forebay Elevation (feet) Reservoir Forebay Elevation (feet) Daily Mean Total Discharge (cfs)

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Tiber Reservoir

Snowpack @ 31% of average

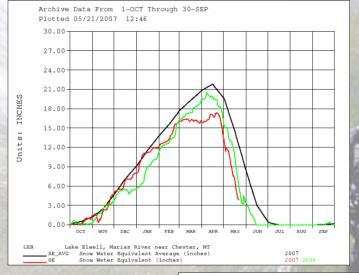
Inflows continue to be below normal

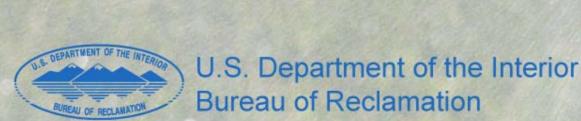
Storage @ 95% of average, 78% full and 4.2 ft lower than last year

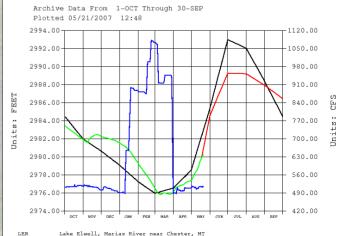
Plans are to continue releasing the desired minimum flow of 500 cfs

Expect to fill Tiber to within 4-5 feet of normal full pool in June

Water supply outlook is fair







Operation Model Average Forebay Elevation (feet) Most Probable Forebay Elevation (feet) Reservoir Forebay Elevation (feet) Daily Mean Total Discharge (cfs)

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Lake Sherburne

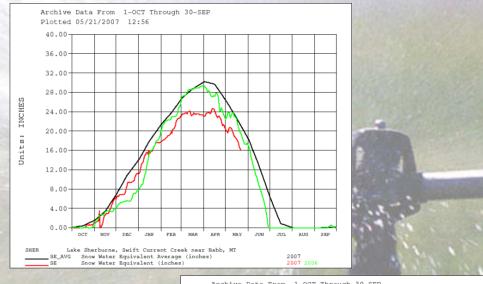
Snowpack @ 76% of average

Inflows are near to above normal

Storage @ 134 percent of average, 51% full, and 15.7 feet or 16,700 af higher than last year

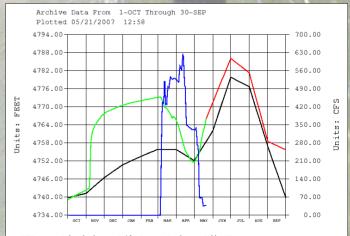
Releases from Lake Sherburne are 40 cfs and we are currently diverting water from St. Mary River Basin to Milk River @ rate of 645 cfs

Water supply outlook is good





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Lake Sherburne, Swift Current Creek near Babb, MT
FB_OPAV Operation Model Average Forebay Elevation (feet)
FB_MOS Most Probable Forebay Elevation (feet)
FB Reservoir Forebay Elevation (feet)
D Baily Mean Total Discharge (cfs)

2007 2007 2007

Managing Water in the West

Fresno Reservoir

Currently diverting 645 cfs from St. Mary Basin to Milk River

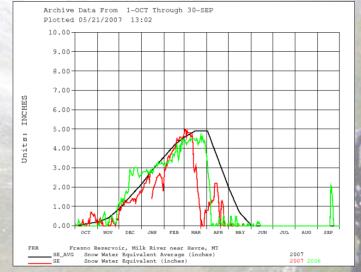
Storage @ 137% of average, 100% full, and 0.33 ft or 1,590 af higher than last year

Currently releasing 730 cfs to the Milk River to meet demands

Storage is expected to slowly decrease as irrigation demands on storage begins to increase

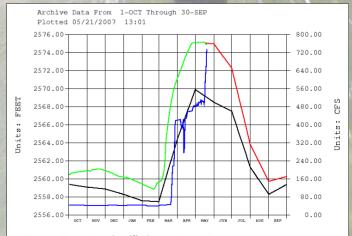
Water supply outlook is good

No irrigation shortages are anticipated this year





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Fresno Reservoir, Milk River near Havre, MT

FB_OPAV Operation Model Average Forebay Elevation (feet)
FB_MOS Most Probable Forebay Elevation (feet)
FB Reservoir Forebay Elevation (feet)
OD Daily Mean Total Discharge (cfs)

2007 2007 2007 2007

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Bighorn Lake (Yellowtail Reservoir)

Snowpack @ 35% of average

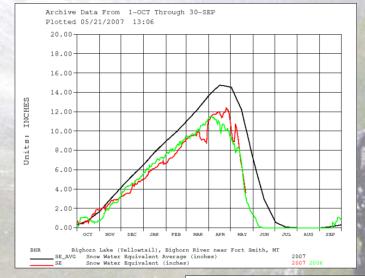
Inflow @ about 90% of average

Storage @ 104% of average, 83% full, and 18.7 feet higher than last year

Releasing 1,500 cfs to Bighorn River

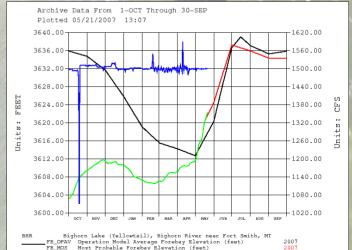
Water supply outlook is fair

Expect to fill Bighorn Lake this spring and increase releases later this summer





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Reservoir Forebay Elevation (feet) Daily Mean River Discharge (cfs)

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Hungry Horse Reservoir

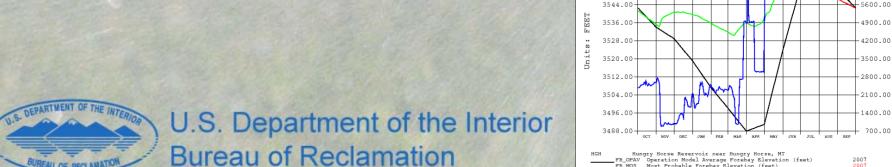
Snowpack @ 61% of average

Storage @ 131% of average & 93% full

Releasing 5,900 cfs to river

Plan to fill Hungry Horse in June







Operation Model Average Forebay Elevation (feet) Most Probable Forebay Elevation (feet) Reservoir Forebay Elevation (feet) Daily Mean Total Discharge (cfs)

Plotted 05/21/2007 13:25

3568.00

3560.00

3552.00

7700.00

7000.00

6300.00